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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,924	08/25/2003	Clayton M. Hardman	P/55-6	2437
Philip M. Weiss	7590 11/19/200 s, Esq.	EXAMINER		
Weiss & Weiss Suite 251 300 Old Country Road Mineola, NY 11501			BAYARD, EMMANUEL	
			ART UNIT	PAPER NUMBER
			2611	
			MAIL DATE	DELIVERY MODE
			11/19/2009	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/647,924	HARDMAN, CLAYTON M.		
Office Action Summary	Examiner	Art Unit		
	Emmanuel Bayard	2611		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	N. imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
<ul> <li>1) ☐ Responsive to communication(s) filed on 27 J</li> <li>2a) ☐ This action is FINAL. 2b) ☐ This</li> <li>3) ☐ Since this application is in condition for allowated closed in accordance with the practice under the condition of the con</li></ul>	s action is non-final. ance except for formal matters, pr			
Disposition of Claims	•			
4) ☐ Claim(s) 1-5 and 7-10 is/are pending in the ap 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-5 and 7-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	awn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)	4)	Date		

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#### **DETAILED ACTION**

This is in response to amendment filed on 7/27/09 in which claims 1-5 and 7-10 are pending. The applicant's amendments have been fully considered but they are moot based on the new ground of rejection.

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 7, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akram et al U.S. Patent No 6,868,081 B1 in view of Shah et al U.S. Pub No 20030161295.

As per claim 1, Akram et al teaches a system that provides a user of a single analog line multiple uses of said line comprising; a modem (see fig.2 element 210) connected to a fixed logic system which multiplexes or demultiplexes data (see fig.2 element 220); said modem compressing a signal traveling through said analog line (see fig.2 element 211 and col.5, lines 15-21) and; said modem providing simultaneous transmission of two, or more, speech or data calls (see abstract and col.1, lines 20-45).

However Akram does not teach wherein said simultaneous transmission is accomplished by compressing conventional analog voice traffic to occupy less bandwidth.

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Shah et al teaches compressing conventional analog voice traffic to occupy less bandwidth (see paragraph [0005]).

It would have been obvious to one of ordinary skill in the art to implement the teaching of Shah into Akram as to reduce network traffic by reducing the number of actual bits required to represent a larger input sequence therefore enhancing the performance or capacity of a file system.

As per claim 7, Akram and Shah et al in combination would teach further comprising a speech compression algorithm requiring between about 5.6 to 6.4 kbps of bandwidth as to reduce network traffic by reducing the number of actual bits required to represent a larger input sequence therefore enhancing the performance or capacity of a file system.

As per claim 9, Akram and Shah et al in combination would teach wherein said system is connected to a copper line (see Akram col.1, line 51) by a COTS modem as to reduce network traffic by reducing the number of actual bits required to represent a larger input sequence therefore enhancing the performance or capacity of a file system

### Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 2, 4-5, 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akram et al U.S. Patent No 6,868,081 B1 in view of Shah et al U.S. Pub No 20030161295 and in further view of Staples et al U.S. Patent No 6,301,339 B1.

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As per claim 2 Akram et al and Shah in combination teach all the feature of the claimed invention except wherein said modem is programmable.

Staples et al teaches wherein said modem is programmable (see col.13, lines 10-15 and col.16, line 66-col.17, line 10).

It would have been obvious to one of ordinary skill in the art to implement the teaching of Staples into Akram and Shah et al as store program instructions and data executed by the processor as taught by Staples (see col.16, lines 2-6).

As per claim 4, Akram, Shah and Staples et al in combination would teach wherein said system is reprogrammed as needed as to accurately store all the data calls forwarded either from the user's office telephone or from the user's home telephone.

As per claim 5, Akram, Shah and Staples et al in combination would teach wherein said modem is downloaded on analog lines, cable, satellite and fiber lines (see Staples col.7, lines 14-18) as to facilitate the communication of data between two or more communications devices.

As per claim 8, Akram, Shah and Staples et al in combination would teach wherein said modern further comprises field programmable gate array as store program instructions and data executed by the processor as taught by Staples (see col.16, lines 2-6).

As per claim 10, Akram, Shah and Staples et al in combination would teach et al in combination would teach wherein said system comprises two modems, one at each end of an analog line; a first modem compresses and multiplexes data at a source end of said line; and a second modem demultiplexes and expands data at an exchange end of a copper line (see Staples fig.2 and col.7, lines 56-65) as to facilitate the communication of data between two or more communications devices.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable Akram et al U.S. Patent No 6,868,081 B1 in view of Shah et al U.S. Pub No 20030161295 and in further view of Bowen U.S. Pub no 2002/0100029 A1

As per claim 3, Akram et al and Shah in combination teach all the feature of the claimed invention except wherein said modem incorporates Handel-C.

- 4. Bowen teaches wherein said modem incorporates Handel-C (see fig.6 element 604 and page 1 [0009]).
- 5. It would have been obvious to one of ordinary skill in the art to implement the teaching of Bowen into Akram and Shah as to enable a software or hardware engineer

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to target directly FPGAs in similar fashion to classical microprocessor cross-compiler development tools as taught by Bowen (see page 1[0009]).

#### Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 7. Westphal U.S. Pub No 20030165122 A1.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel Bayard whose telephone number is 571 272 3016. The examiner can normally be reached on Monday-Friday (7:Am-4:30PM) Alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571 272 3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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11/19/2009 Em

Emmanuel Bayard Primary Examiner Art Unit 2611

/Emmanuel Bayard/ Primary Examiner, Art Unit 2611